

Claims

- 5<sup>th</sup> PI
1. Ultrathin-walled multiwell plate for heat block thermocycling of samples comprising an array of small-volume wells of identical height with the similarly shaped sample wells formed in the top surface of the heat block of the thermocycler, wherein the walls of the wells have an average thickness of 20-40 microns.
  2. Ultrathin-walled multiwell plate according to claim 1, wherein the height of the wells of the plate is not more than the height of the sample wells formed in the top surface of the heat block of the thermocycler
  3. Ultrathin-walled multiwell plate according to claim 1, wherein the walls of the wells are conically shaped.
  4. Ultrathin-walled multiwell plate according to claim 1, wherein the thickness of the walls of the wells decreases from top to bottom.
  5. Ultrathin-walled multiwell plate according to claim 1, wherein the wells of said multiwell plate are thermoformed into negative mould.
  6. Ultrathin-walled multiwell plate according to claim 1, wherein the walls of the wells are deformable.
  7. Ultrathin-walled multiwell plate according to claim 1, wherein the said microwell plate comprises a rigid supporting frame.
  8. Ultrathin-walled multiwell plate according to claim 1, wherein the volume of the well is in the range of 16-85  $\mu$ l.